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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,494	04/20/2006	Takashi Hattori	1270.45867X00	3727

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EXAMINER

CHU, JOHN S Y

ART UNIT	PAPER NUMBER
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1752

NOTIFICATION DATE	DELIVERY MODE
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06/28/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/576,494

Applicant(s)

HATTORI ET AL.

Examiner

John S. Chu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 4/20/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

This Office action is in response to the application filed April 20, 2006.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

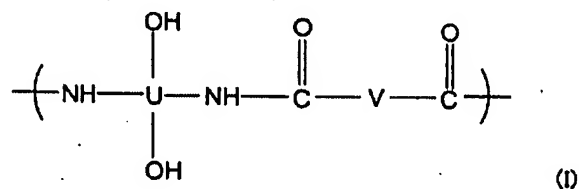
2. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by FUJITA et al (2005/0014873).

The claimed invention is drawn to the following:

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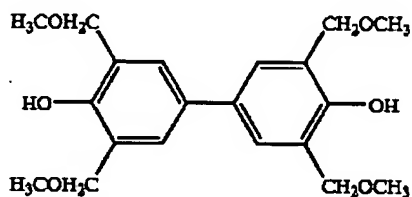
1. A positive photosensitive resin composition comprising:
 - (a) alkaline aqueous solution-soluble polyamide having a polyoxazole precursor structure;
 - (b) an o-quinonediazide compound; and
 - (c) a latent acid generator which generates acid upon heating.

2. The positive photosensitive resin composition according to claim 1, wherein the component (a) is a polyamide having a repeating unit represented by the following general formula (I):



wherein U represents a tetravalent organic group, and V represents a divalent organic group.

FUJITA et al (2005/0014876) anticipates the claimed invention at Examples 2 and Comparative examples 4-7 in Table 1, page 29. Example 2 discloses a quinone diazide compound and a sulfonium latent acid generator, which can be heat generated and a fourth component, which meets the phenol hydroxyl group compound of claim 7, see the following;



TMOM-BP

from page 25.

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3. Claims 1-6 and 10-17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by NUNOMURA et al (6,232,032).

The claimed invention has been recited above and is included by reference.

NUNOMURA et al anticipates the claimed invention at column 10, lines 59-63 wherein the preferred "dissolution inhibitor" is a 4-methoxyiodonium trifluoromethanesulfonate listed among four other compounds. The compound though called a "dissolution inhibitor" also functions as a heat acid generating compound wherein the compounds used are inseparable from it properties. The description in a name changes not the properties and functions of the compound. Thus the disclosure in NUNOMURA et al clearly anticipates and teaches the claimed invention comprising an alkaline aqueous-soluble polyamide having a polyoxazole precursor structure, an o-quinone diazide compound and a latent acid generator which generates acid upon heating.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. RUSHKIN et al (6,929,891) is cited of interest and cumulative to the previously cited references wherein the teachings for more than one acid generating compound can be used with a polybenzoxazole precursor and a crosslinking agent.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Cynthia Kelly, can be reached on (571) 272-1526

The fax phone number for the USPTO is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John S. Chu/
Primary Examiner, Group 1700

J.Chu
June 22, 2007